

electrical system on Aug. 1, 2003. The sale of the electrical system will allow vast improvements, including replacing poles and redoing the military substations and meter-switch cabinets. These upgrades will save Fort Irwin about \$178,000 the first year and \$545,000 each subsequent year for the remainder of the 50-year contract.

SCE, based in Rosemead, CA, is working with the military at several Navy and Marine Corps bases. However, this service agreement will be the first for SCE under the new privatization mandate. Once SCE takes over, the upgrades and improvements should be completed within 15 months. All work will be handled from the SCE Barstow office; however, during the first few years of the contract, representatives will be on post 5 days a week. In addition, the current installation support services contractor, Johnson Controls Inc. (JCI), will continue to receive all work orders and determine if the work requires SCE to be contacted. SCE hopes to make a seamless transition and anticipates no adverse effects to Fort Irwin residents.

On April 24, 2003, the NTC Acquisition Command hosted a very successful Electrical Privatization Kick-off Meeting. The purpose of this meeting was to coordinate and facilitate the transfer of ownership between Fort Irwin and SCE. In attendance were representatives of NTC's ACA-SR, DPW, SCE and JCI. During the meeting's morning session, teaming efforts began on behalf of all parties, which allowed the team to cover a number of issues and answer any new questions. In keeping with the teaming concept, follow-on meetings began in May as part of the efforts to ensure the lines of communication remain open.

In essence, Fort Irwin's privatization efforts have, by use of the \$8.5 million credit to offset the annual facilities cost, improved Fort Irwin's electrical system and provided the ability to fund more than a dozen needed projects. This innovative approach maximizes the best overall value for the National Training Center to continue to meet its mission.

## AWARDS

### ECBC's Emanuel Receives TOYA Award

Dr. Peter Andrew Emanuel, a Scientific Advisor for the U.S. Army's Edgewood Chemical Biological Center (ECBC), Aberdeen Proving Ground, MD, was named one of this year's Ten Outstanding Young Americans (TOYA). The U.S. Junior Chamber will present the awards at a ceremony in Anaheim, CA, held in conjunction with its annual meeting. The TOYA Awards Program recognizes young people who are the best, brightest and most inspirational leaders in America.

Emanuel began his career as a National Research Council fellow focused on developing humane alternatives to animal use in making antibodies for pathogen detection kits. As an ECBC Scientific Advisor, he continued his work and developed expertise in polymerase chain reaction (PCR) detection of biological warfare agents, resulting in more than 150 PCR tests being used by DOD.

A central theme of his scientific career has been to protect the nation by bringing the best research out of the lab and into the field. In 1998, he began building the Critical Reagent Repository (CRT) to archive and distribute all the detection reagents used to identify biological warfare agents. In 2002, he became Program Director of the nationwide program. Working together with other biodefense community members, he has helped accelerate the introduction of new technologies and foster increased scientific interchange.

He has been active in training soldiers and mentoring young scientists. Interactions with troops in the field led to the development of the Biological Sampling kit, which filled a need for hazardous material teams and has been patented and commercially licensed for the first-responder community.

After September 11, 2001, Emanuel initiated development of an automated robotic system to test the environment for biological warfare agents in the Washington, DC, area. The Automated Biological Agent Testing System (ABATS) triples the throughput of samples at one-third the cost of the traditional manual analysis operations. The ABATS is now being activated on an around-the-clock basis to protect the homeland.

Emanuel's achievements have garnered numerous recognitions including the Joint Program Office for Biological Defense Medallion for his contributions to the CRT Program. He is an active speaker in national and international scientific forums, has authored more than 25 publications and has secured 3 patents.

### **RDECOM's Chappelle Receives 2003 Roy Wilkins Renown Service Award**

Gregory Chappelle, Research Scientist, Engineer and Educator for the U.S. Army Tank-automotive and Armaments Command's (TACOM's) Research, Development and Engineering Command, has received the National Association for the Advancement of Colored People (NAACP) *2003 Roy Wilkins Renown Service Award*. This prestigious NAACP award is presented annually to Americans who have distinguished themselves by contributing to military equal opportunity programs and policies. The award salutes those who continue to struggle for equality in the Armed Services.

Chappelle won the award for his educational outreach efforts with middle school students during the past year as well as his 10 years of diligent and proactive work with the Nation's historically black colleges and universities/minority institutions (HBCUs/MIs) and inner city middle schools. He was directly responsible for identifying numerous HBCUs/MIs to be awarded more than 2.5 million dollars of U.S. Army and DOD science and engineering research contracts. In addition, he recruited more than 25 minority scientists and engineers into the federal civilian service.



Pictured from left to right: Greg Chappelle with BG Vincent Brooks and TACOM's Leonard Sanford.

Chappelle is the recipient of the 1995 U.S. Black Engineer of the Year National Special Recognition Award. He conducted outreach programs to assist in mathematical and science education of students within the Nation's inner cities from 1990 to 2000 and from 2002 to 2003. From October 2002 through March 2003, Chappelle advised and taught three eighth-grade students who subsequently won a Regional 2nd Place U.S. Army Ecybermission Science, Mathematics and Technology Competition Award of \$9,000. Chappelle is a teacher, scientist and engineer who has shown excellence in his efforts to produce more American scientists and engineers of all ethnicities and genders.

### **Did You Know?**

New platforms like the M270A1 Multiple Launch Rocket System (MLRS) changed the accuracy, speed and depth at which targets could be attacked during *Operation Iraqi Freedom*. It gave the V Corps Artillery Headquarters the capability to fire GPS-aided missiles and influence battles at significantly greater ranges and accuracy. The MLRS launcher provided counterfire, suppression of enemy air defenses and destruction of light and personnel targets, while delivering large volumes of firepower in a short time against critical, time-sensitive targets. Thanks to advanced logistical support from the Army Materiel Command, the M270A1 maintained an operational readiness rate in excess of 90 percent throughout the war.

**"The MLRS provides the Army an all-weather, indirect, area fire weapon system to strike high-payoff targets at all depths of the tactical battlefield."**

— MG Larry J. Dodgen,  
Commanding General  
U.S. Army Aviation and  
Missile Command

